



FEATURES

- Compact, moisture resistant package
- Low LED current
- Passive resistance output
- Hermetic Photocell

DESCRIPTION

This optocoupler consists of an LED input optically coupled to a TO-5 Hermetic photocell. The photocell resistance is high when the LED current is "off" and low resistance when the LED current is "on".

APPLICATIONS

- Industrial

ABSOLUTE MAXIMUM RATING

(TA)= 23°C UNLESS OTHERWISE NOTED

SYMBOL	PARAMETER	MIN	MAX	UNITS
V_{ISO}	Isolation Voltage		2000	V
T_{Op}	Operating Temperature	-40	+75	°C
T_{Stg}	Storage Temperature	-40	+75	°C
T_S	Soldering Temperature (2)		+260	°C

Note:

- (1) Derate 1.0 mW/°C above 25°C ambient
- (2) >2 mm from case for <5 sec.
- (3) The Rise Time, TR is the time required for the dark to light change in conductance to reach 63% of its final value.
- (4) Print "NSL-26" and date code "YYWW".

RELIABILITY

Contact API for recommendations on specific test conditions and procedures.

ELECTRO-OPTICAL CHARACTERISTICS

(TA)= 23°C, UNLESS OTHERWISE NOTED

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	MIN	TYP	MAX	UNITS
LED						
I_F	Forward Current				40	mA
V_F	Forward Voltage	$I_F = 16 \text{ mA}$			2.0	V
V_R	Reverse Current	$V_R = 4 \text{ V}$			3.0	μA
Cell						
V_C	Maximum Cell Voltage	(Peak AC or DC)			120	V
P_D	Power Dissipation	(1)			200	mW
Coupled						
R_{ON}	On Resistance	$I_F = 16 \text{ mA}$			2	K Ω
R_{OFF}	Off Resistance	10 sec after LED "OFF", 5V dc on cell.	10			M Ω
T_R	Rise Time	Time to 63% of final conductance @ $I_F=16 \text{ mA}$ (3)		3.5		msec
T_F	Decay Time	Time to 100 K Ω after removal of $I_F=16 \text{ mA}$		20		msec
T_{CE}	Cell Temp. Coefficient	$I_F > 5 \text{ mA}$		0.7		%/°C

Information in this technical datasheet is believed to be correct and reliable. However, no responsibility is assumed for possible inaccuracies or omission. Specifications are subject to change without notice. © 2014 Advanced Photonix, Inc. All rights reserved.

Advanced Photonix Inc. 1240 Avenida Acaso, Camarillo CA 93012 • Phone (805) 987-0146 • Fax (805) 484-9935 • www.advancedphotonix.com